

FIGURE 1

Peptide	Amino acid sequence
1	DNTAQTSAYIQYEPHHSI
2	GPGHWDR
3	AAFDGSGQR
4	FAMGALPD
5	FTASLDEWTTAAR
6	VDASFRPQGXLAP

FIGURE 2

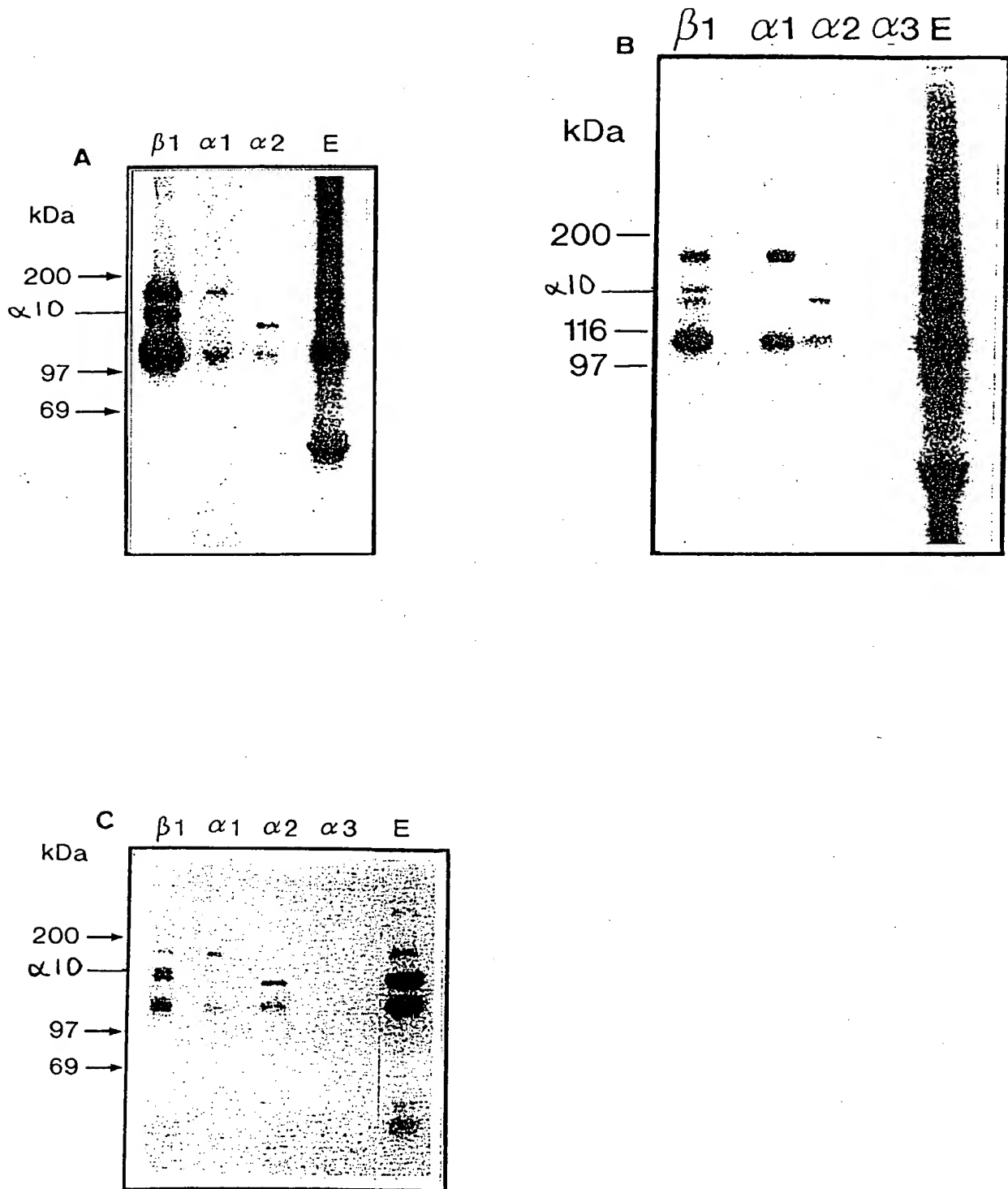


FIGURE 3

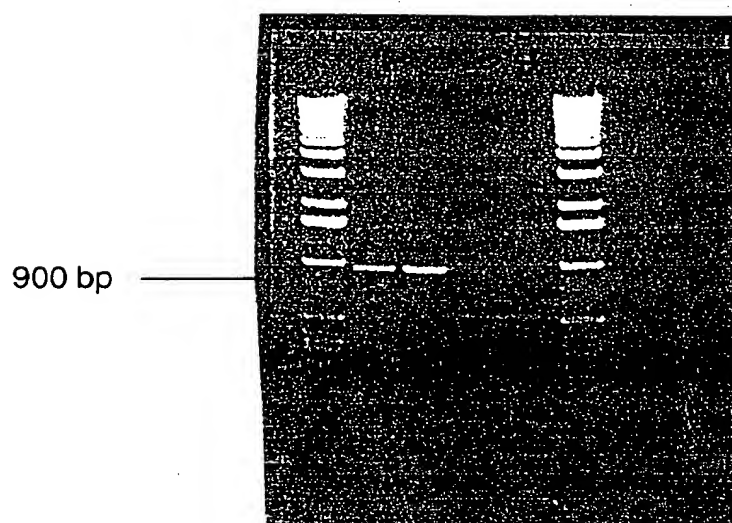


FIGURE 4

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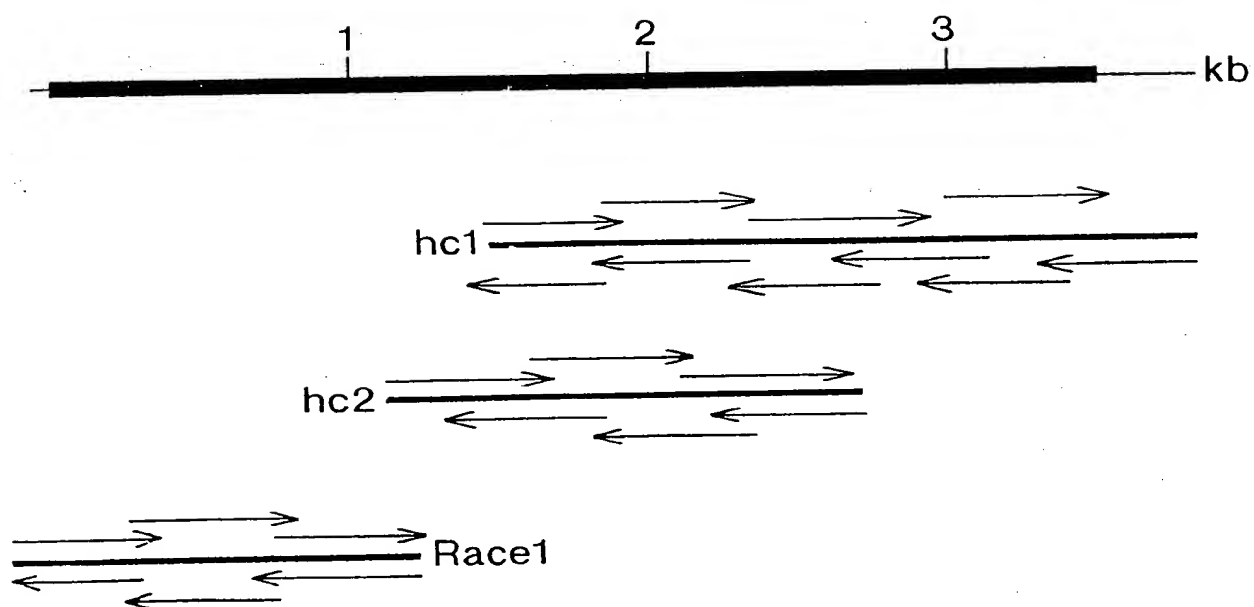


FIGURE 5

[illegible]

FIGURE 6

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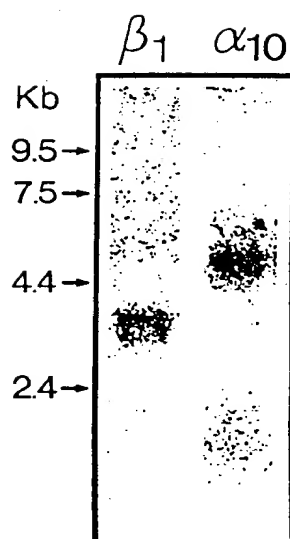
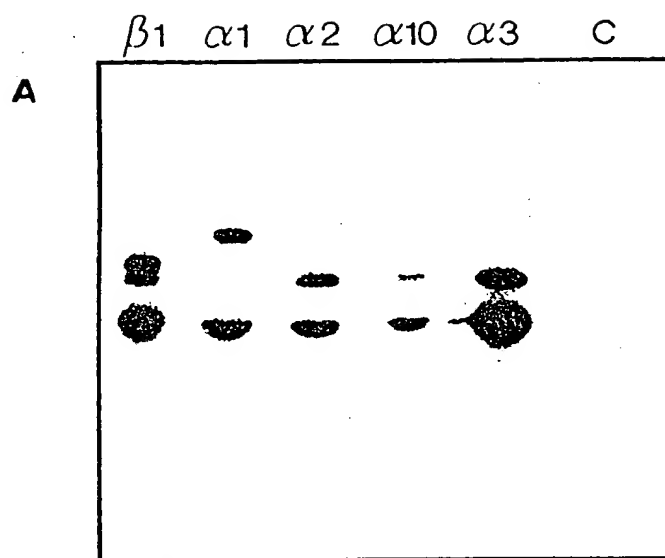


FIGURE 7

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B IP: $\alpha 10$ $\beta 1$
Blot: $\beta 1$ $\beta 1$

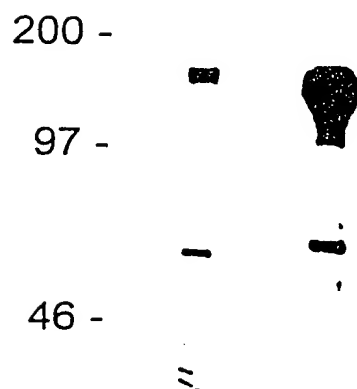


FIGURE 8

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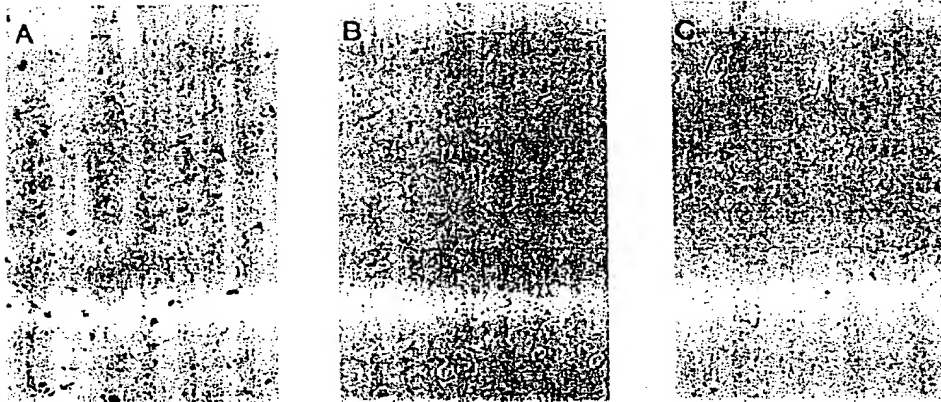
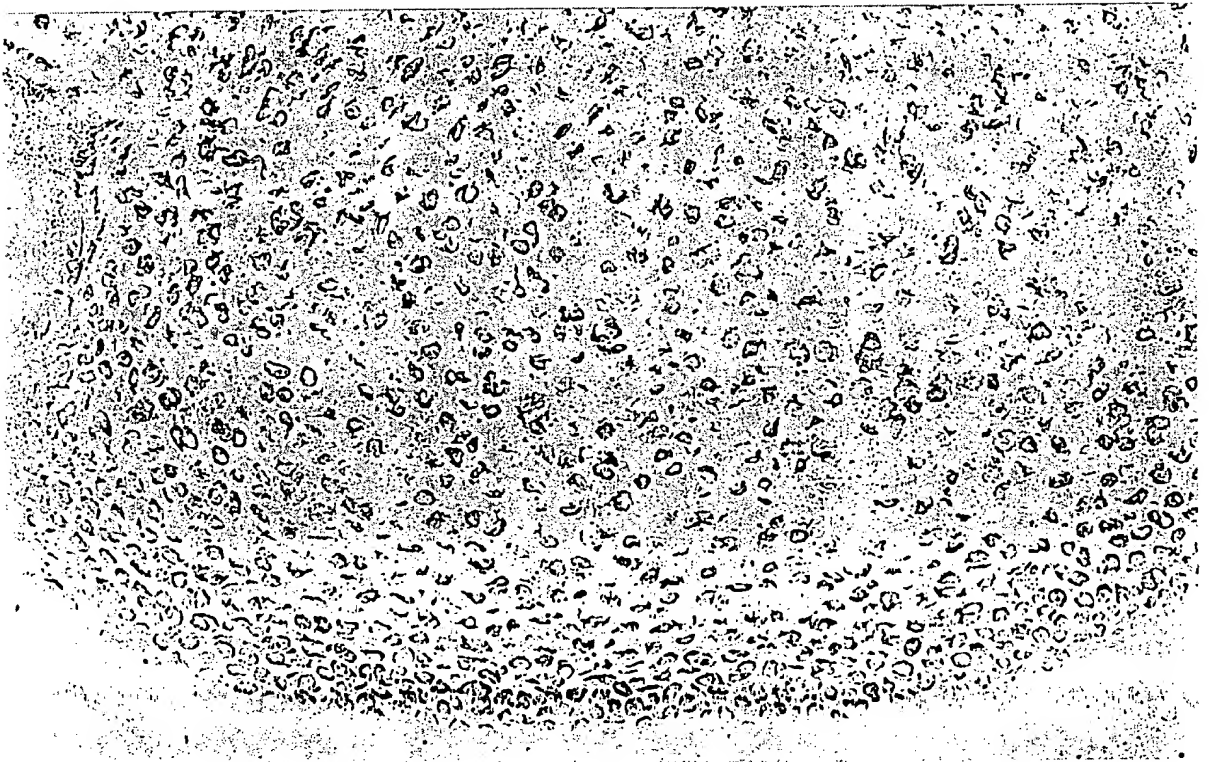


FIGURE 9

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A



B

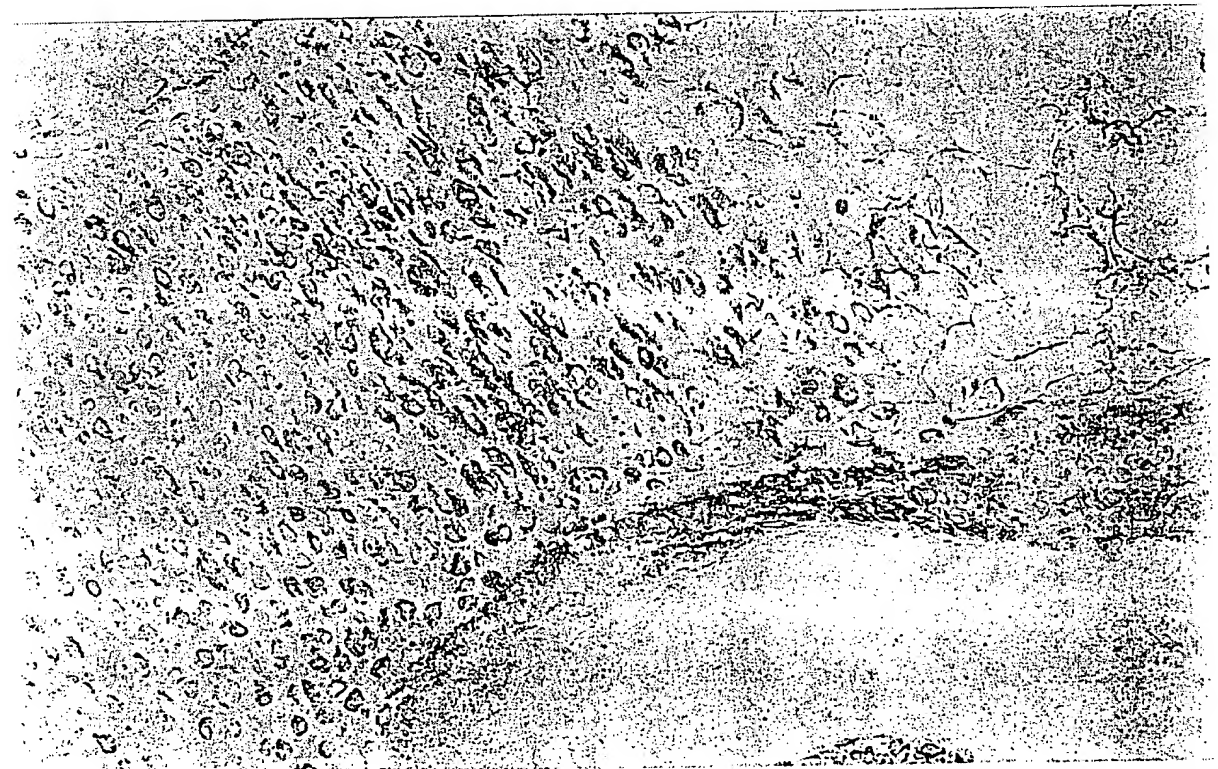


FIGURE 10

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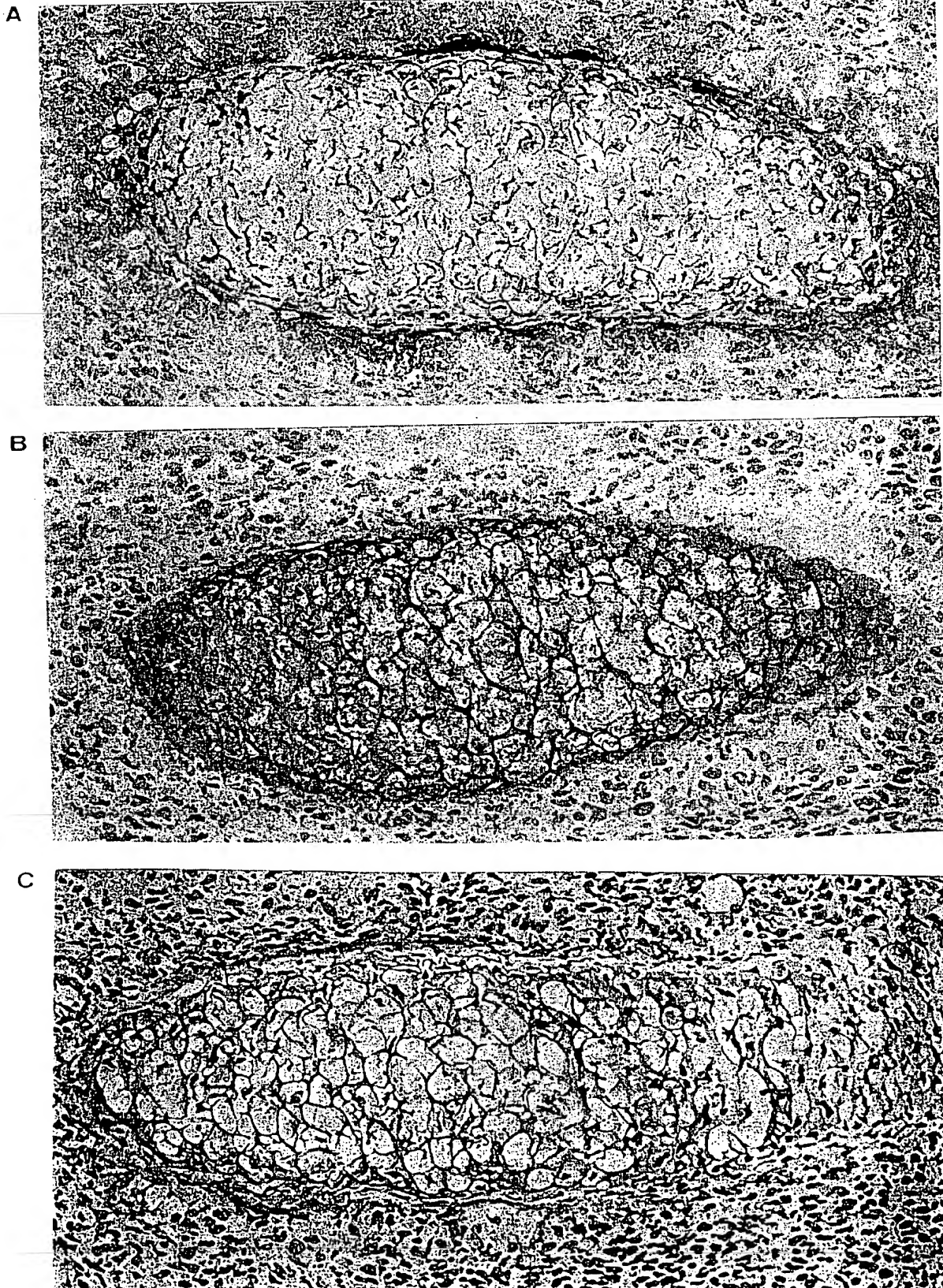


FIGURE 11

Human RNA Master blot

Tissue	$\alpha 10$ expression	Tissue	$\alpha 10$ expression
Aorta	++++	Thyroid gland	-
Trachea	+	Salivary gland	-
Lung	++	Spleen	-
Fetal lung	++	Fetal spleen	-
Kidney	++	Thymus	-
Fetal kidney	(+)	Fetal thymus	-
Heart	(+)	Peripheral leucocyte	-
Fetal heart	++	Lymph node	-
Spinal cord	++	Appendix	-
Mammary gland	(+)	Placenta	-
Bone marrow	(+)	Whole brain	-
Small intestine	(+)	Fetal brain	-
Skeletal muscle	-	Amygdala	-
Liver	-	Caudate nucleus	-
Fetal liver	-	Cerebellum	-
Colon	-	Cerebral cortex	-
Bladder	-	Frontal lobe	-
Uterus	-	Hippocampus	-
Prostate	-	Medulla oblongata	-
Stomach	-	Occipital lobe	-
Testis	-	Putamen	-
Ovary	-	Substantia nigra	-
Pancreas	-	Temporal lobe	-
Pituitary gland	-	Thalamus	-
Adrenal gland	-	Subthalamic nucleus	-

FIGURE 12

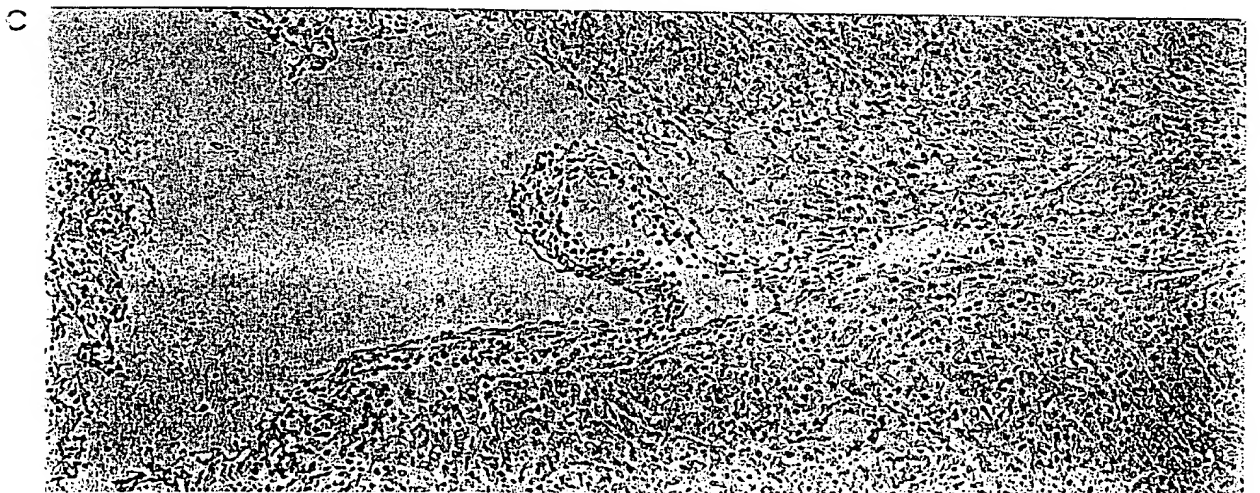
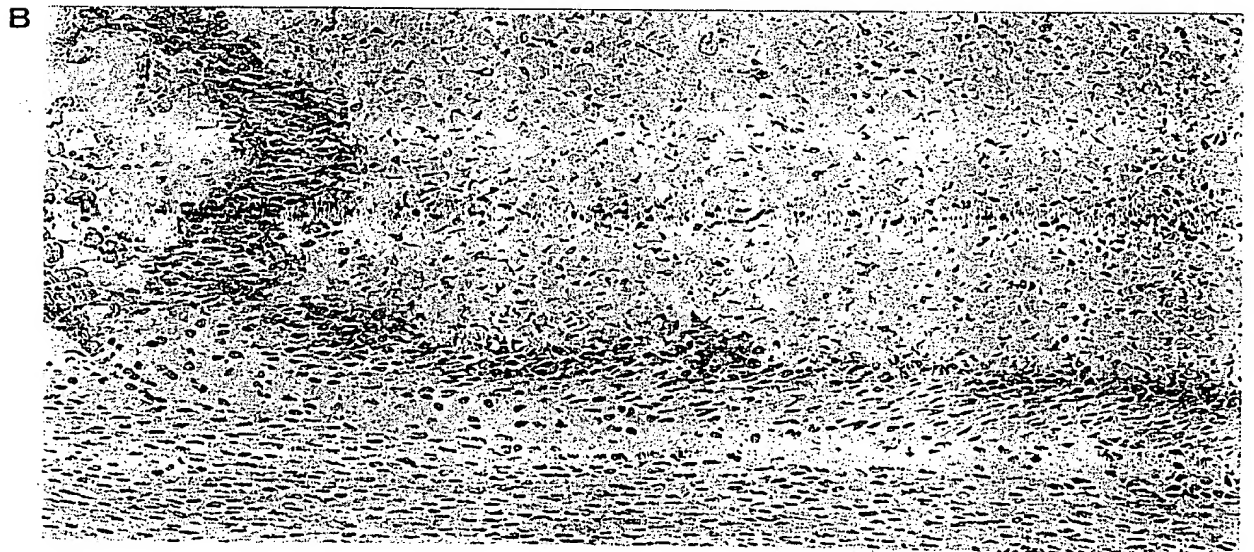
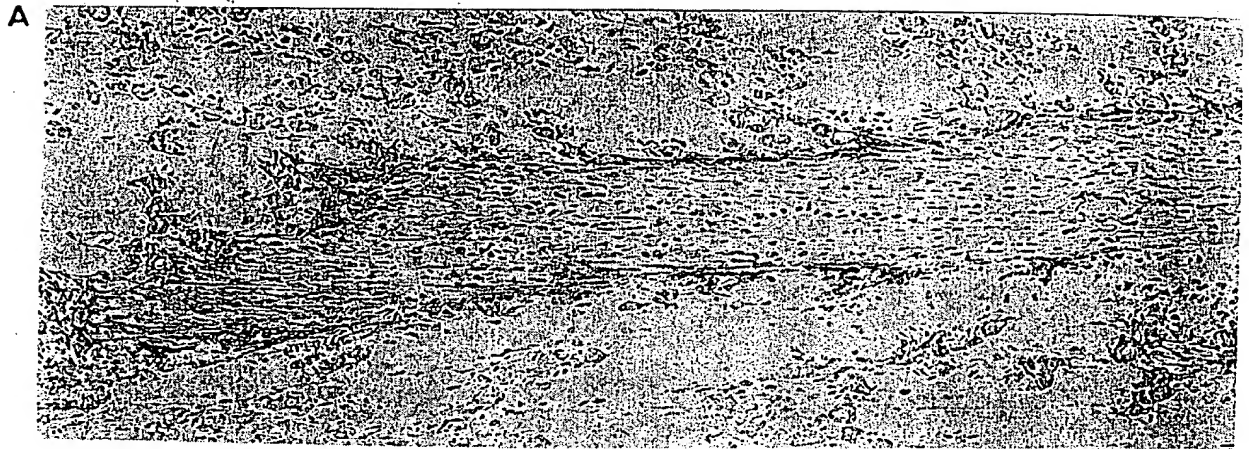


FIGURE 13

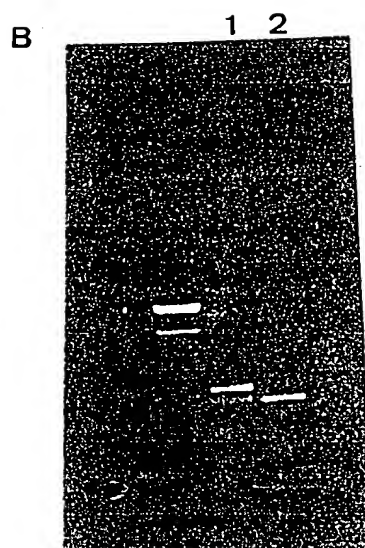
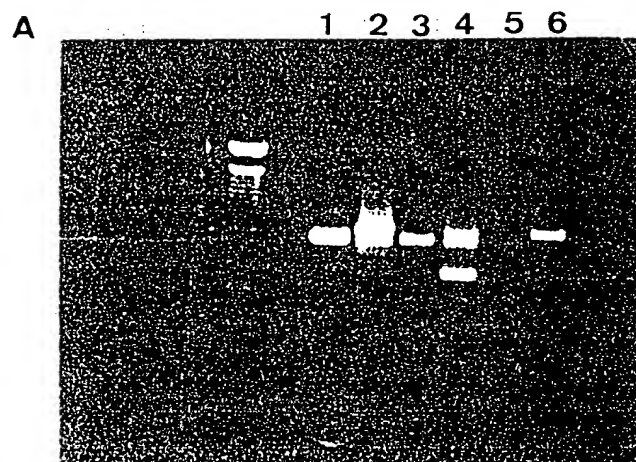


FIGURE 14

TGNTMMKCHCACCAGKMGWSAKGNCCGAKGGTKGKGVAAVGTGACARAGCTNGMNAARANGAAGTATGACCGWTGGGC 80
 ? ? ? ? R ? ? ? P ? V ? ? ? D ? A ? ? K ? K Y D ? W A
 ? ? ? ? H ? ? ? ? R ? ? ? ? V . T ? ? L ? K ? ? S M T ? G
 V ? ? ? ? T ? ? ? ? ? ? G ? ? ? ? . Q S ? ? ? K ? E V . P V G
 CRAGATAGMKAMDAAGCNGHSAGKTRAMGGACGATGGNCCMGCCAAVCGABWGGNAAHTBCGGCNWDCA RGTCCAAATK 160
 ? I ? ? ? K ? ? ? ? ? G R W ? ? Q ? ? G ? ? G ? Q ? P N
 P R . ? ? ? S ? ? ? ? ? D D G P A ? ? R ? ? ? ? ? A ? ? ? V ?
 ? D ? ? ? A ? ? ? . R T M ? ? P ? ? ? ? ? ? R ? ? ? ? S K ?
 SANKTCSAGGAACCMACGGAMTGGCTCGCARCCCDTAGGGATCAGGKACGATGCTCSCCGRNSKACTCSGNKTGATWA 240
 ? ? ? R N ? R ? G S Q F ? G I R ? D ? S P ? ? S ? . ?
 ? ? ? G T ? G ? A R ? P . G S G T M ? ? R ? T ? ? ? D ?
 ? S Q E P T ? W L A ? ? R D Q ? R ? L ? ? ? L ? ? ? I
 ATCGMNGWTGCGMAGGCGGCGGAATTWAAAGTANTGGTMGAMAKATGWGVMGGAWATGATRRGTMGACTVTMVMGGVAK 320
 I ? ? R ? A ? E L ? S ? G R ? M ? R ? . ? V D ? ? G ?
 S ? V G R R R N ? K V ? V ? ? ? ? G ? D ? ? T ? ? ?
 N R ? ? ? G G G I ? K ? W ? ? ? ? ? ? M ? ? R L ? R ?
 VTAKSGGTACAGGCGAAKACARGRAKGTGTCTGAGGAADTCAGNAGGACAAMHTTGCCGAAGTCMGGACTTAGKATRGAT 400
 ? ? Y R R ? Q ? ? V . G ? Q ? D ? ? A E V R T . ? ?
 ? ? G T G E ? ? ? ? V S E E ? ? R T ? L P K S G L ? ? D
 ? ? V Q A ? T ? ? C L R ? S ? G Q ? C R S ? D L ? ? I
 ACGAANCKTRGATCTTAMADGGGGGNKAGCGAGTGCSTAAACGVARATRGGSWGTCTACTTMAACHCCAAGNGDGGACA 480
 Y E ? ? ? I L ? G G ? R V ? K R ? ? ? ? L L ? ? Q ? ? T
 T ? ? ? S ? ? G ? S E C ? N ? ? ? ? V Y ? N ? K ? G H
 R ? ? D L ? ? G ? A S A . T ? ? G ? S T ? T P ? ? D
 TTTACTAGASGAGGAGAGTAGGCCAGATCACDGTGAGATGATCTAAKGTGGGGTCCCGTTGCCAGTATATGAGAGGACTGGT 560
 F T R ? G E . P D H ? R . S ? V G S R C Q Y M R G L V
 L L ? E E S S Q I T . D D L ? ? W G P V A S I . E D W
 I Y . ? R R V A R S ? E M I . ? G V P L P V Y E R T G
 TCGGCAGACATWGATGCTCTTTGCTGACTCACATATTGTTGCCVTGAGKATGATCAGATACGATCTGWTGTCCTCATCA 640
 R Q T ? M L F A D S H I V A ? ? M I R Y D L ? S L I
 F G R H ? C S L L L T H I L L P . ? . S D T I ? C P S S
 S A D I D A L C . L T Y C C ? E ? D Q I R S ? V P H H
 TGAATSTGRGCCGTGATGCTAATGAGATTGCGCTATGATGGAACAAGAGACTTMTGCTACAGCAGGCGAATGAAGGTTTC 720
 M N ? ? R D A N E I R L . W N K R L ? L Q Q A N E G F
 . ? ? A V M L M R F A Y D G T R D ? C Y S R R M K V S
 E ? ? P . C . . D S P M M E Q E T ? A T A G E . R F
 TAGAGTAGGAGTCTCAGGAGGAGAGAACTGTGGACCTGGAGGACCAGGGACTCCAGGAGGAAGTWGCCACAACCTGGCTT 800
 . S R S L R R R R E T V D L E D Q G L Q E E V A T T G L
 L R V G V S G G E R K L W T W R T R D S R R K ? P Q L A
 L E . E S Q E E R N C G P G G P G T P G G S ? H N W L
 GMAGTTTGGGCTCGGATCCTGATACWGGCTCGTCTTVGAGTTATCCCCCTCTCTTGTCTGGATGGCTCAGAAATGCGCTGG 880
 ? F R L R S . Y ? L V L ? V I P L S C W M A Q K C L
 ? S F G S D P D T G S S ? E L S P S L A G W L R N A W
 ? V S A P I L I ? A R P ? S Y P P L L L D G S E M P G
 ACCTTTTCATCCCCACTGGACAACTAGGCGTCTGGCGTGTGGCCCTGGGATTGTGGGGCTGTGTGGCCCTCATATCCTC 960
 D L F I P T G Q T R R L A L W P W D C G A V W P H I L
 T F S S P L D K L G V W R C G P G I V G L C G L I S S
 P F H P H W T N . A S G V V A L G L W G C V A S Y P
 CATTCTGTCTATTCTCACCTAATCTGTCCCTGGNTACGACTCAAGCCCYGACTGACAMTGTGGTACAAGATAAGGAGGG 1040
 H S V Y S H P N L S L ? T T Q A ? T D ? V V Q D K E G
 I L S I L T L I C P W ? R L K P ? L T ? W Y K I R R
 P F C L F S P . S V P G Y D S S P D . ? C G T R . G G
 AGCCCGAGGTGGGTGAGATGGAAGCTGAGATGGTNCAGTGTGTGCCNACCTCATTGTAATTCAACTNCCTTGACTGAAGTT 1120
 A Q V G E M E A E M V H C V P T S L . F N ? L D . S
 E P R W V R W K L R W ? T V C ? P H C N S T ? L T E V
 S P G G . D G S . D G ? L C A ? L I V I Q L P . L K L
 AAAATCCAGATCCYTAGGGATGAGGGGAAGAACCTGCCAAAGACGGGTGAGGAAGGCAGTGCTAAGGGAAGGCTCCTGCA 1200
 . N P D P . G . G E E F A K D G S G R Q C . G K A P A
 K I Q I ? R D E G G K N L P K T G Q E G S A K G R L L Q
 K S R I S L G M R G R T C Q R R V R K A V L R E G S C
 GGCCTCTGCAGTTGGACTTCATTGAGTCCCATTCGCGAGAATCTCATAGCTCTTCCCYTATCTCTCTGTCTGTAGTCTAG 1280
 G L C S W T S F S P I A R I S . L F P L S L C L E S S
 A S A V G L H S V P L P E S S S ? Y L S V L S L S
 R P L Q L D F I Q S H C Q N L I A L P ? I S L S . V .
 TTAAGAATTTGTTACCGGAGACAGAATTCTCTTTCTTAGCCTCCTGGCCAGATATTTAAAGGAGGGGGTGGGTACTT 1360
 . E F V T G D R I L F L S L L A R Y L K G G G W V T
 V K H L L P E T E F S F L A S W P D I . K E G G G L L
 L R I C Y R R Q N S L S . P P G Q I F K R R G G V G Y F

TTGGTAGGGGAAGCTTAAGTTATGGATAGCAAAGTGCTAATTGTATTCTTTTTTCTGAAACCTCATGTAGCATTTTTTC 1440
 F W . G K L K L W I A K C . L Y S F F F L K P H V A F F
 F G R G S L S Y G . Q S A N C I L F F F . N L M . H F F S
 L V G E A . V M D S K V L I V F F F S E T S C S I F
 TTCCTTCCACCTCCATACCTTTCCAGGCTTCATTTCATGCCCGGCGTCTCTCGCTCACACCGCTGCAGGCTGTTTGA 1520
 F P S T L H T F P G F I S C P A S L R S H R C R L F E
 S L P P S I L S Q A S F H A R R L F A H T A A G C L
 L P F H P P Y F P R L H F M P G V S S L T P L Q A V .
 GGCTTCTCCCTGGGTCTGCCTCAGCAGACTGCCTCCACACTTTCCAGTTTCTGCTACACGTTGATATTAGAGTTTCT 1600
 A S P L G L P Q Q T A S T L S S F C V H V D I R V S
 R L L P W V C L S R L P P H F P V S A Y T L I L E F P
 G F S P G S A S A D C L H T F Q F L R T R . Y . S F L
 TCCCCACTTGGCTCTTGCTCTTCTCTGACTACCCAGGCTGATGCCATGTCTGGCCTCTTCTGTAAATCTGTACAATG 1680
 F P T W L L L F L . L P R L M F C L A S S C K Y C T M
 S P L G S C S P S D Y P G . C H V W P L P V N T V Q .
 P H L A L A L S L T T Q A D A M S G L F L . I L Y N
 ATTCTATGTAAATAACTGGTCCCTTGGCCACAGAGCAAGCAAGCCTTCTAGGCTAACAAATTAAGATCAAGTTTGCTCAC 1760
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 P Y V N N W S L P T E Q A S L L G . Q I K D Q V C S
 D S M . I T G F C P Q S K Q A F . A N K L K I K F A H
 TGACTTTTTTATCAATTCAAGATGGCGGGGCTGGGGGGGGCGGATTGCCTGTTTTCACTGGGTACCTAGGCAG 1840
 D F F I Q F K M A G G G V G G R I A C F H C G T . A
 L T F L F N S R W R G V G W G G G L P V F T V V P R Q
 . L F Y S I Q D G G G W G G G A D C L F S L W Y L G R
 GGCTGAAGCTCTGAGCTCCCTGCTTTAGGCTTCTGAGTAGCCTACAGTGAGTGTACTGTGTCCAGCTGCTCGTTGACA 1920
 G L K L . A P L L . A S E . P T V S V T V S S C S L T
 G . S S E L P C F R L L S S L Q . V L L C P A A R . H
 A E A I S S P A I G F . V A Y S E C Y C V Q L L V D
 TCTGGTCTCTCATGGTCTGGTCAATTGTAAGCCTTAGCTCTCTGACTGTGGATGGCTTTCTTGGGTTAGCAGCTAAGAT 2000
 S G I S W S G H C K P . I S D C G W L S L A L A A N M
 L V S H G L V I V S L S L T V D G F P W R . Q L T
 I W S L M V W S L . A L A L . L W M A F L G V S S . H
 GGTTACAGGATTTCACTGAAAAATTTAAATGTTGGGGGAAAGGTGCGGACACACCATAATGGTCCCAATTCAAAAAATCC 2080
 V T G F H . K F K C W G K G A D T P . W S Q F K T I
 W L Q D F T E N L N V G G K V R T H H N G P N S K Q S
 G Y R I S L K I . M L G E R C G H T I M V P I Q N N P
 GTGAAACAGCCTCAAGTTAGGGGTGAGATGTTTTCAACCAAAGTAATTATCTTGACACCACAAAGCACACCTGTCTACAG 2160
 R E T A S S . G . D V F N Q S N Y L D T T K H T G L Q
 V K Q P Q V R G E M F S T K V I I L T P Q S T P V Y R
 . N S L K L G V R C F Q P K . L S . H H K A H L S T
 GCAGTGACTCCCCAAAGCTATTAGACACACAACAAGCATGACCATAACTCAGTGGATTGGCAAGGTACACAGTAGGAC 2240
 A V T P Q K L L D T Q Q A . P . L S G L A R S H S R T
 Q . L P K S Y . T H N K H D H N S V D W Q G H T V G
 G S D S P K A I R H T T S M T I T Q W I G K V T Q . D
 TGCCCTTCCACAGTAGGTAGGAAAATGCTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2320
 A L H T V G R K M L L S L L S A V I L H I P C . D .
 L P F T Q . V G K C C C H C C Q L L F C I S H V K I N
 C P S H S R . E N A A V T A V S C Y F A Y P M L R L I
 AAGGCAAAAAATATTGTCTCTAAGTCTACTTTCTGTTCCAACTGGAGGAAATATTGAATAAATAAACCGTGCAATAA 2400
 . G K K Y C L . V L L S V P N W R K L L N K . T V H K
 K A K N I V S K S Y F L F Q T G G N Y . I N K P C I K
 R Q K I L S L S P T F C S K L E E I I E . I N R A .
 AGTAGCCTCAGAAAGGTCAAAATTTGTGTTTTCTTTGAATATTAGCTGAGGCCTCCAGGGGGCAGCACCAAGGTAGAGA 2480
 S S L R K G Q N L C F L . I L A E A S R G Q H O G R E
 V S A S E R V K I C V F F E Y . L R P P G G S T K V E
 K . P Q K G S K F V F S L N I S . G L Q G A A P R . R
 GCTGGACTAAGGCTGCTCTGTGTTCTGTCTCTGGGCTCCCCACAGCTCCCTTCCACCACCACTCCCATTCATCCAACCT 2560
 L D . G C S V F L S W A P H S S L P P P L F F H P T
 S W T K A A L C S C P G L F T A P F H H S H S I Q L
 A G L R L L C V P V L G S P Q L P S T T T P I P S N F
 TATTTTTAGCTGCCAGTGGGAGGGGGCAGGATAGGAGGGAAAGTAACGAAAACAGCCAAAGGAGAGGGACAGAGCAACTCA 2640
 L F L A A S G R G Q D R R E S N E N S Q G E G Q S N S
 Y F . L P V G G G R I G G K V T K T A K E R D R A T Q
 I F S C O W E G A G . E G K . R K Q P R R G T E Q L
 GAGCCTCTCGGACTGGACGGACAAGCGCCCTGAGTCTCTCTCATCCCTCACCTGCTCCTGCCCTGGCGTWGCTGA 2720
 E P L G L D R T S A H G V S L H P S P A P A P G V A D
 S L S D W T G Q A P M E S L S I P H L L L P L A ? I
 R A S R T G P D N R P W S L S P S L T C S C P W R ? I

FIGURE 15b

CAGGTGAGGGAAGCAAACCTTGGTTTCTGCTGGGAATGGAAGTTATGTGGATTGTTTATAATTGGGACCATTATGGCTAAA 2800
 R . G K Q T W F L L G H E V M W I V Y N W D H Y G .
 T G E G S K L G F C W E W K L C G L F I I G T I M A K
 Q V R E A N L V S A G N G S Y V D C L . L G P L W L K
 ATCTYGGCGGCTCAGGTGGGAGTTAATACCGATGCTATATTTCTGTGTGCACTCATGTTCTTAGACACCCAAATGG 2880
 N L A G A Q V G G . Y R C Y I S C V H S C S . T P K W
 I ? R A L R S E V N T D A I F P V C T H V L R H P N G
 S ? G R S G R R L I P M L Y F L C A L M F L D T Q M
 CAGTGGCCAAAACCTTCTCTGGCTTGACCTCATTATCTAAACCTTTGTACCTAATTATCTAAAACCTTGGTCTTAACT 2960
 Q W P K L P L A C T S L S K P L Y L I I . N L G P K L
 S G Q N F L W L V P H Y L N L C T . L S K T L V L N
 A V A K T S S G L Y L I I . T F V P N Y L K P W S . T
 CCACAGACATGAGGGCACAGAAAAGAGACGTGTCTCTCATCTTCCATTGGGTTACACTGATTCTACCTTCCCTGCTTCT 3040
 H R H E G T E K R R V S H L P F G Y T D S Y L P C F
 S T D M R A Q K R D V S L I F H S V T L I P T F A S
 P Q T . G H R K E T C L S S S I R L H . F L P S L L L
 CCCTGCCATTGGTGTCTTGGTGGCTGAGGCATAATTGCCCTTACTATGTGGTCAGAACTCTGGGTTCGCTTAACGACCG 3120
 S L P L K L L G A . G I A L L C G Q N S G F A . R P
 P C H W C S L V P E A . I A L P Y V V R T L G S F P N D R
 P A I G A P W C L R H N C L T M W S E L W V R L T T
 AGCTACAGTTTCTGCTCATAGCCCTGCCAATTTCTGGATTAAAAAAGGCTCACATATAAAATACCTTTTCTGA 3200
 S Y S F W S H S P A N F L D . K K K A H I . N T F S E
 A T V S G L I A L P I S W I K K K R L T Y K I P F L
 E L Q F L V S . P C Q F P G L K K K G S H I K Y L F .
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 N E H S V S . S . I L G D G G L L G C K E Q D S R E
 K M S T V . V E V R F W G M E G C L D A K S K T V E K
 K . A Q C E L K L D F G G W R V A W M Q R A R Q . R R
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 E N H G R D K R L E F F P A S A L . S L F P K I T A L
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 E S W E G . E A G I F P C . C P I I F V S . N N S S
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 D F M G I G V R R K E S V G T D G T P S V D . S L R K
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 T M G V G K G C L . G G . D E E I V V G G S L G G D .
 L W E . A R G V C K V D E M R R L W W G G V L G V I G
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 D P . Q G . M A N C V W A G R W F H P L N . R . G W Q
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 P L T G I D G K L C V G G R P V V P F T . L A L R L A
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 G W K E F A L S T L E K V Q V . Q E E T E R G D T R A
 A G R S Q H S O P W R K C K C D K K K Q K E E T P P G
 G L E G A S T L N L G E S A S V T R R N R K R H P G
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 G S S L P S F L P M A L A L G R I R K G W . L C I L
 Q G A P C H R F F P W P W L W E E L G K G G D S A S S
 R E L L A I V S S H G P G F G K N . E R V V T L H P Q
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 R K A L S P S L D S R G L E R R M C R R N D V E R V T
 E K P S L P L W T L E A . R G E C V G G M M W K E . L
 K S P L S L F G L S R L R E E N V . E E . C G K S N
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 . P I Q M C L . H R F Q E . E W K Y S C A S A W P R A
 D L S R C V C E . D L F R E N E N G N T A V L Q H G R G
 L T Y P D V S V H E I S G M R H E I Q L C F S M A E G
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 L G S L T P T P Q E E N H P I I P P G V L R T . H .
 P . D P S P P P H R K R I I Q S S H L G F . G H D I T
 L R I P H P T P G R E S S N H P T W G S E D M T L T
 ACAGAGCAGGAGAGCTGAGATAGAAACACTCCCTCTGTCTTGTCTCCCACTAAGCCTCAACAGTCTTTCATTAACGTAT 4080
 H R A G E L R . K H S L L S C L P L S L T S P S L T D
 T E Q E S . D R N T P S C L V S H . A S P V S F H I .
 Q S R R A E I E T L P P V L S P T K P H Q S F I N .

FIGURE 15c

TGGTGGATGCTAATTATGATCCTCACCCTCAGGTCTCTGCTCCCCCTTTAATCTGGATGAACACCACCCAGACTCTTC 4160
 W W M L I H I L T P Q V S A F P L I W M N T T T H D S S
 L V D A N Y D P H P S G L C S P F N L D E H H P R L F
 ACAGGGCCACAGAGGCCGAATTTGGATACAGTGTCTTACAGCATGTTGGGGCTGGACAGCGATGGTGAGAGGGAAAAACA 4240
 Q G H Q R P N L D T V S Y S M L G V D S D G E R E N
 H R A T R G R I W I Q C L T A C W G W T A M V R G K T
 T G P P E A E F C Y S V L Q H V G G G Q R W . S G K Q
 GAGGACCGTGGGATCGGGACTATGCACTCACTGATAAAGGGGAGGACCGGTCCAAGCTGGCCTTTGAAAGTGCCTGGGGC 4320
 R G P W D R D Y A L T D K G E D R S K L A F E S A W G
 E D R G I G T M H S L I K G R T G P S W P L K V P G A
 R T V G S G L C T H . . R G G P V Q A G L . K C L G
 TCCATGACGTCTCATGCACTCTCCCTCTCACTATACTAAGGACCATGCTCACCAGGATCTTTATATCCATATTCTCTTCC 4400
 S M T S H A L S L S L Y . G P C S P D L Y I H I L F
 P . R L M H S P S H Y T K D H A H R I F I S I F S F
 L H D V S C T L P L T I L R T M L T G S L Y P Y S F S
 AGGATGCTGGTGGGCTGGGATGGGATGAGGAGGAGGAGGATGTTTATCGTTGCTCTATAGGGGATT 4480
 G C W V P P G M G H Q V T G E R G M F I V A L . G D
 Q D A G G C P L G W A I R . P E R G C L S L L Y R G I
 R M L V G A P W D G F S G D R R G D V Y R C S I G G F
 CCACAGTGCTCCATGTACCAAAGGCCACCTGGGTAAAGAAGCCTGACCTTTCCCTGCTAATTCCTGATGTTGACATC 4560
 S T V L H V P K A T W V R R S I T F P L L I P D V D I
 P Q C S M Y Q R P P G . E E A . P F P C . F L M L T S
 H S A F C T K G H L G K K K P D L S P A N S . C . H
 TAGTAAGTCTGACCCCTTGGACCTTGTCTTCAATGACCTGAAGTAAAGAAGCCGAAGTATGACCCCATGACTTCATTCT 4640
 . . L . P L G P C L Q . P . T K E A E L . P H D F I L
 S N S D P L D L V F N D P E L K K P N Y D P M T S F
 L V T L T F W T L S S M T L N . R S R T M T P . L H S
 CTTCTACCCCTTCTCACAAGGCTGACTATCACTTGGAAATTCCTCTCAGCCTGCTGTGAATATGACACCTAGGGATGTC 4720
 F Y P S S N Q V T I N L E I P L S L L . I C T . G C
 S S T L P P T R . L S T W K F L S A C C E Y A P R D V
 L L P F L Q F G D Y Q L G N S S Q P A V N M H L G M S
 TCTACTAGAGACAGATGCTGATGGGGATTTCATGGTGAGCTGAAAGAAGGGCCTCAGAAGGTTACAGAGCGGGAAGAGAG 4800
 L Y . R Q M L M G D S W . A E R R A S E G S Q Q G R E
 S T R D P L C . W G I H G E L K E G P Q K V H S R E E S
 L L E T D A D G G F M V S . K K G L R R F T A G K R
 CATTATGCTATCTGGCAGTGGTGGCTTGGGCTTTCATCCAGTGTCTGAGGAGCAGAGTCAGGCCTGATCTACAGAGT 4880
 H Y G A V V A V A F H P S V L E A E S G L I Y R V
 I M V S G Q W W L G P F I P V F W R Q S Q A . S T E
 A L W Y L G S G L G L S S Q C S G G R V R P D L Q S
 GAGCTCCAGGACAGCCAAGGCTATGCAGAGAAACCCCTGTTTTGAAAAACCCAAAACCAAACTAACCACCAACCAAC 4960
 S S R T A K A M Q R N F V L K N P K P K L T K Q Q Q
 . A P G Q P R L C R E T L F . K T Q N Q N . P N N N
 E L Q D S Q G Y A E K P C F E K P K T K T N Q T T T T
 AGAAAAAGCACCGTGGTAAGGGAATTAGTCTGTATAGAAGAGACAAGGAATTCAAAACCTAGAGAGCAAGGCAGGGT 5040
 Q K K H R G K G N . S V . K R Q G I Q N P R E O G R V
 R K S T V V R E I S L Y R R D K E F K T L E S K A G F
 E K A P W . G K L V C I E E T R N S K P . R A R Q G
 CCCCATGGAGTGGTCTCATCTCTCTTTAACTAGGTGTGTGTTCCGAGAGGCCCTCTCAAGCCTGGGGATAACTATTTC 5120
 P H G V V S I S L L T R C V F R E A L S S L G I T I S
 P M E W S P S L F . L G V C S E R P S Q A W G . L F
 S P W S G L H L S F N . V C V P R G P L K P G D N Y F
 TCCTATCCACCCAGGCCTGTGCCCCCTTTTGGTCTCGTGCCTGCGGCAGCTCTGTCTTCAGTTCTGGAATATGTGCCCGT 5200
 P I H P G L C P S L V S C L R Q L C L Q F W N M C P
 L L S T Q A C A P L W S R A C G S S V F S S G I C A R
 S Y P P R P V P L F G L V P A A A L S S V L E Y V P R
 GTGGATGCTTCATTCGGGCCCCAGGGAAGCCTGGCACCCACCGCCCAAGTGGAGCAGTGGGAAGGGCCCTGGAAGCTCAG 5280
 C G C F I P A P G K P G T H R P T . A S G R A L E A Q
 W D A S F R P Q G S L A P T A Q R E P V E G P W K L S
 W M L H S G P R E A W H P P P N V S Q W K G P G S S
 TTCCAGATAGGGATGCTGGGTGGGAAAACTAGGACAAAGACTTGGTGGAGGGTCTGCATGGCTATCCTCATCATTCCC 5360
 F P D R D A G W E K L G O R L G G G S A W L S S S F P
 S Q I G M L G G K N . D K D L V E G L H G Y P H S F
 V P R . G C W V G K T R T K T W W R V C M A I L I I P
 AAGTGTGCTTGCAGAAGAGGCTCCTGTTTGTCTAAGTGAATTCAGACTCCTTAGGAGAGCCTCAAGACACCAGGAT 5440
 S V L A E E A P V C . L I R I O T P . E S L K T P G
 Q V C L Q R L L F A N . L E F R L L R R A S R H Q D
 K C A C R R G S C L L T D . N S D S L G E P Q D T R I

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CTGGTTTTACCAACTTAAAAACAAAACAAAACAGCATATCCTGTGCACAGCCTATCCCTCATCCATCACGTCCTCCAT 5520
S G F T H L K T K Q N S I S C A Q P I P H P S R V L H
L V L P T . K Q N K T A Y P V H S L S L I H H V S S I
W F Y Q L K N K T K Q N I L C T A Y P S S I T C P P
ATCTTATTTTTGTGGGTCTTATAGATGCCAAGTCAGCACTCAGTTATTGGGTTCTCCCTCATGCCCTTTCATATATTTTC 5600
I L F L W V L . M P S Q H S V I G F S P H A F H I L S
S Y F C G S Y R C Q V S T Q L L G S P L M P F I Y F
Y L I F V G L I D A K S A . L S Y W V L P S C L S Y T F
TTATCTACTGCCCTTTGGGAGATAGTCTTATGTAGCCAGGCTGTCTTGATCTTGAATTTGCTTGCCCTCAGCTTCTCA 5680
Y L L P F G R . S Y V A Q A V L D L G I C L P Q L L
L I Y C L L G D S L M . P R L S L I L E F A C L S F S
L S T A F W E I V L C S F G C P . S W N L L A S A S Q
GTCTCAAGTACTGGGATAATAGGCATGCATTGTCTGCTGCCCTTTGCTGAACATGCCCTCTGTGGCCATTGGTAGGGCA 5760
S L K Y W D N R H A L S A W P L L N M P S V A I G R A
V S S T G I I G M H C L P G L C . T C P L W P L V G H
S Q V L G . . A C I V C L A F A E H A L C G H W . G
TGAGTCAAATACTGCCCTCCCCACACACACACAAAGTGAAGGCTCTCTAAGTGTTCATAGCACAGGGTAGT 5840
. V K Y C P P P Q H T H K R K . G S L S V P . H R V V
E S N T A L P H N T H T N E S E A L . V F H S T G .
M S Q I L P S P T T H T Q T K V R L S K C S I A Q G S
GGTAGGCCCTCTCGTAGTGCATATTTTCTTTTACTCTGCCCATGCTTTCTTTCTTTGATTTCACACTGGGGACCTG 5920
V G L S L V H I S F F F Y S A H L F F L . F P H W G P
W . A S R . C I F H S F T L P I S S F F D F H T G D L
G R P L A S A Y F I L L L C P S L L S L I S T L G T W
GCATAGTACTTTCTCGTAATTAAGAGAGAATTCCTTTTAAGTGCTGCATTGCAGCGTCTCCTGGGACATTCTCCCT 6000
G I V L S W . L R E N S L L S A C I A A S S W D I L P
A . Y F P G N . E R I P F . V P A L Q R P P G T F S L
H S T F L V I K R E F P F K C L H C S V L L G H S P
TGCTGACTACACCCACATCCTTCCATGTTTTTGTTCCTCATCACTATGCCCCCTTCTAGGCTGTCCACATACATGG 6080
C . L H F T S F H V F C F P S L C P P S R L S H I H G
A D Y T P H P S M F F V S H H Y A P L L G C P T Y M
L L T T P H I L P C F L F P I T M P P F . A V P H T W
ATGTCGTCATTGTTTTGGGATGGCTCCAACAGTATCTATCCCTGGTCAAGATTGAGACTTTCTCTCGAGGCTGGTAGGA 6160
C R H C F G W L Q Q Y L S L V R S S D F P S E A G R
D V V I V L D G S N S I Y I P G Q K F R L S F G G W . E
H S S L F W M A P T V S I P G Q K F R L S F G G W . E
AGACTGTTTCATCGATCCGGAGCAGATACAGGTAAAGAGAAAGATATGTGGATACGATTGGACGGAAAGAAGTAAACATCC 6240
K T V H R S G A D T G K R K I C G . D W R E R S K H S
R L F I D P E Q I Q V R E R Y V D R I G G K E V N T P
D C S S I R S R Y R . E K D M W I G L E G K K . T L
TGGACCTTGGATGTAAGCAGCCATGTCCAGCCTCTTGATGACACCCCTGGGACATTGTCTTCTACAGAATCATGCTCAA 6320
W T L G C K Q P C P A S . . H P G T L S S T E L M L K
G P L D V S S H V Q P L D T L G H C L L L O N S C S
L D P W H . A A H S S L L M T P W D I V F Y R T H A Q
GAACGTGTGCAATTAACCTACCAAAAAGTCACAAAATTTTCATAATGTTGAAGTAAGTTTATGATTGTGTGGGGGGCAC 6400
N C A I N L P K S H K N F I M F E V S L . L C G G G P
R T V Q L T Y Q K V T K I S . C L K . V Y D C V G G H
E L C N . L T K K S Q K F H N V . S K F M I V W G A T
ACTCAGAGCTTCCCTTTGCTGCTTGTAGTTGCTTGGCAATGCATGCCATGACGCTGCAAGTTAGACACACCTGTTCACTT 6480
H S E L P F A A C S C L G N A C H E L Q V R H T C S L
T Q S F P L L L V A W A M H A M S C K L D T P V H F
L R A S L C C L . L L G Q C M P . A A S . T H L F T
CCCTTTCATCGTGTGCAAGTTGGACACACCTGTTAGGGGTTCACTTCCCTTCATCCTTTGTGCTCCATCTTCTCTACG 6560
P L H R A A G W T H L L G V H F P F I L C A P S S L R
S P S S C C R L D T P V R G S L P L H F L C S I F S T
CTCTTCATACATCCGATGTGGGCACATGCTTATTGTTCTCAGGTAGGACTGTACAGTACGGGGAGAACCCTGTGCATG 6640
S S Y I P C G H M V Y C S Q V G L V Q Y G E N P V H
A L H T S H V G T W S I V L R . D W Y S T G R T P L C M
L F I H F M W A H G L L F S G R T G T V R G E P C A .
AGTGGTCCCTGGGAGACTTCCGAACAAAGGAAGTGTGTGAGAGCAGCAAGGAACCTAAGTCCGAGGGGAAGGGCGAGAA 6720
E W S L G D F R T K E E V V R A A R N L S R E G R E
S G P W E T S E Q R K E K L . E Q Q G T . V G G K G R E
V V P G R L P N K G R S C E S S K E P K S E G R A R
ACGAGAACC GCCCAAGCGATCATGGTGGCATGGTGAACATTGTAAAGGGGTCGTGTGAGGGAGGAGGAACGATCAGCAG 6800
T R T A Q A I M V A W . D I V K G S C E G G G R I S R
R E P P K R S W W H G E T L . R G R V R E E E G S A
N E N R P S D H G G M V R H C K G V V . G R R K D Q Q

FIGURE 15e

FIGURE 15f

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1 2 3 4

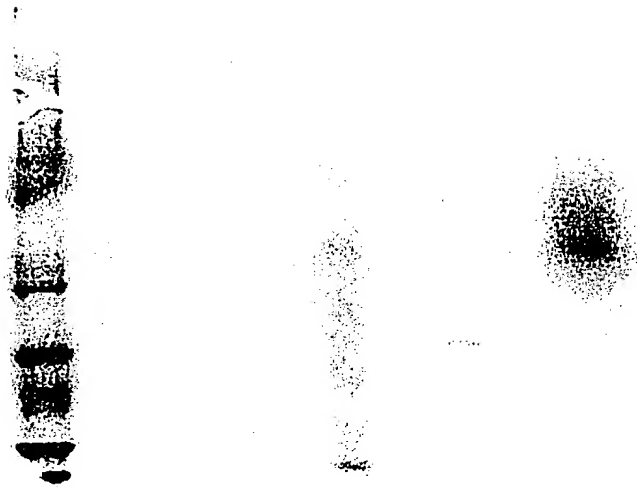


FIGURE 16

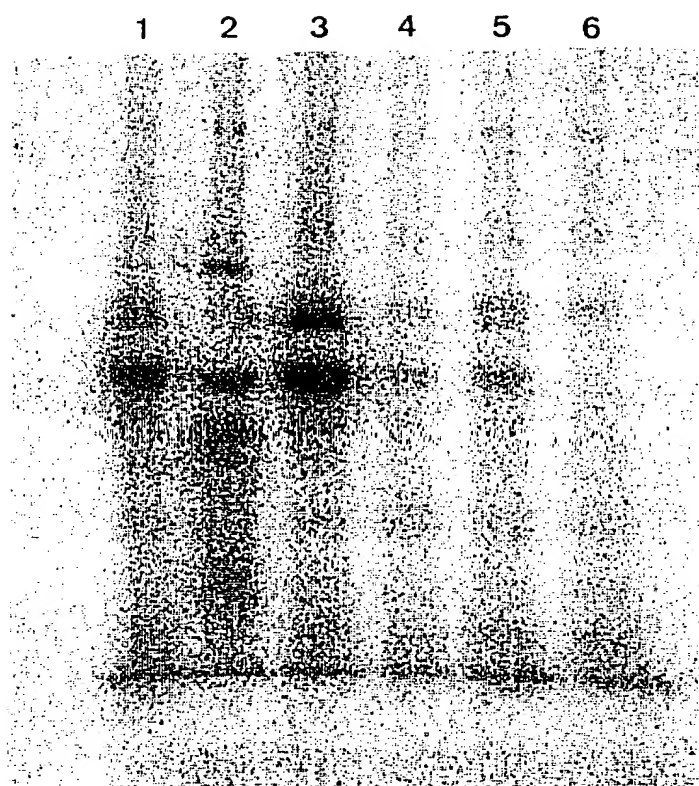


FIGURE 17